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CIA/PIR-17/64
June 1964

CENTRAL INTELLIGENCE AGENCY

PHOTOGRAPHIC INTELLIGENCE REPORT

SOVIET-TYPE SAM INSTALLATIONS,
WACS 281, 282, 287, 289, 291,
322 THROUGH 326, 328, AND 329



Published and Disseminated By
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CENTRAL INTELLIGENCE AGENCY
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PREFACE

This is the eighth in a series of reports, prepared in response to CIA requirement C-RR3-80,733, presenting locational and other pertinent information on all Soviet-type surface-to-air missile (SAM) installations. 1-7/ Installations included are SAM launch sites (SA-1, SA-2, SA-3, and SA-0), antimissile-missile activities, SAM support facilities, SAM R & D and training facilities, and unidentified in-

stallations, possibly SAM-related. The information will be presented by World Aeronautical Chart (WAC), and within each WAC by SAM defense area, as determined from photography and collateral sources. When the defense function of an installation cannot be determined, this will be so indicated. Where no installations have been identified in a WAC area, that WAC will be omitted.

INTRODUCTION

This report presents information on all Soviet-type SAM installations located in the areas covered by WACs 281, 282, 287, 289, 291, 322, 323, 324, 325, 326, 328, and 329 and identified on photography. The cutoff date for this information is 15 June 1964. Figure 1 shows all the WAC areas, except Cuba, which will be covered in this series; those in red are covered in this report. WACs covered in the previous reports are outlined in red, and the report number is indicated on the graphic. Diagrams of the configurations of the common types of SAM installations are presented in Figure 2. Information for each WAC is shown in a table (Tables 1-12), which gives detailed data, and a map (Figures 3-14), which indicates the location and type of each SAM installation. Because of the volume of data for Table 9, Figure 11 has been repeated for easier reference.

Explanations of the columnar headings used in the tables are as follows:

Item--Given in a numerical sequence for each WAC, with numbers assigned to installations arbitrarily, and keyed to the accompanying WAC.

Name, Site Designator, BE Number--In accordance with the TDI. Absence of any of this information indicates that it was not available at the time of publication.

Coordinates--Given in degrees, minutes, and seconds, and plotted from series 200 US Air Target Charts unless otherwise indicated in next column.

Country & Map References--BE country codes used. Map reference is to the Air Target Chart sheet number (scale 1:200,000) unless otherwise indicated.

Type & Configuration--Indicates the type of SAM installation and its configuration as illustrated in Figure 2.

Mission & Date First Appears--Gives the number and date of the mission on which the installation was first sighted.

Mission & Date Installation Negated--Refers to the latest photography on which it has been established that construction of the installation had not been started. Absence of any notation indicates that this information could not be determined.

Remarks--Covers items of special or unusual interest.

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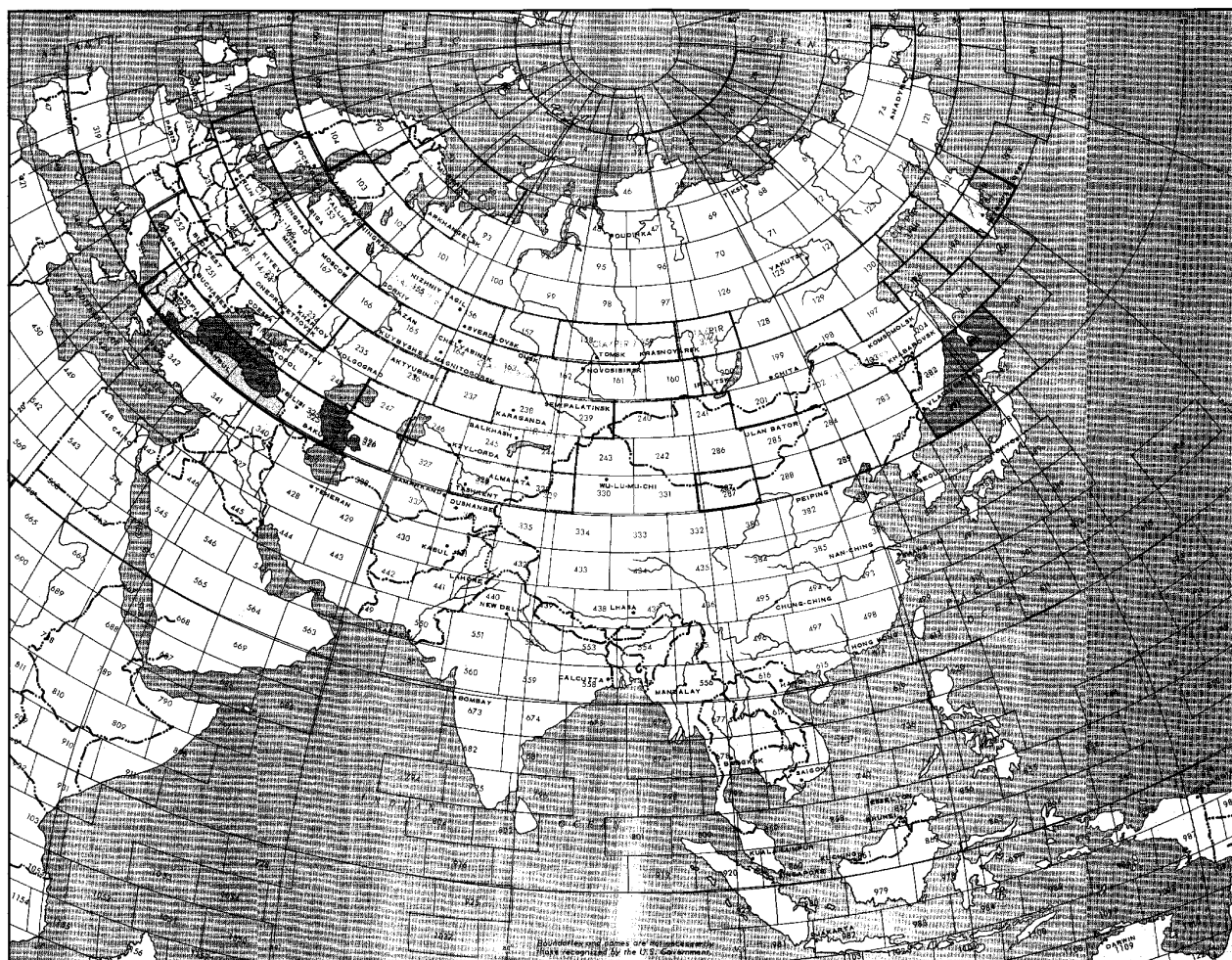


FIGURE 1. ALL AREAS TO BE COVERED IN THIS SERIES. Areas covered by this report in red; areas covered by preceding reports, red-bordered and report numbers indicated.

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Table 1. SAM Installations on WAC 281

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Yuzhno-Sakhalinsk SAM Defenses (in defense of Yuzhno-Sakhalinsk: military center-headquarters of Far East Military District, military installations, and four military airfields; small industrial center-facilities for production of explosives, alcohol, and oxygen; and Korsakov--major port of Sakhalin Island, naval base, and military airfield)							
1	Yuzhno-Sakhalinsk SAM Support Facility, [REDACTED]	46-59-30N 142-46-30E	UR 0281-SA	Type II (square)	[REDACTED]		
2	Yuzhno-Sakhalinsk SAM Site A10-2, [REDACTED]	46-57-00N 149-54-59E	UR 0281-S	SA-2, configuration undetermined			
3	Yuzhno-Sakhalinsk SAM Site B12-2, [REDACTED]	46-50-45N 149-10-05E	UR 0281-S	SA-2, configuration undetermined			
4	Korsakov SAM Site B10-2, [REDACTED]	46-26-50N 149-06-50E	UR 0281-SA	SA-2, link			
5	Korsakov SAM Site A11-2, [REDACTED]	46-37-20N 149-46-50E	UR 0281-SA	SA-2, link			
B. Dalnyaya SAM Defense (defense role undetermined)							
6	Dalnyaya SAM Site A36-2, [REDACTED]	45-55-15N 149-04-30E	UR 0231-12A	SA-2, link			

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(281) SOYA STRAIT

WORLD AERONAUTICAL CHART

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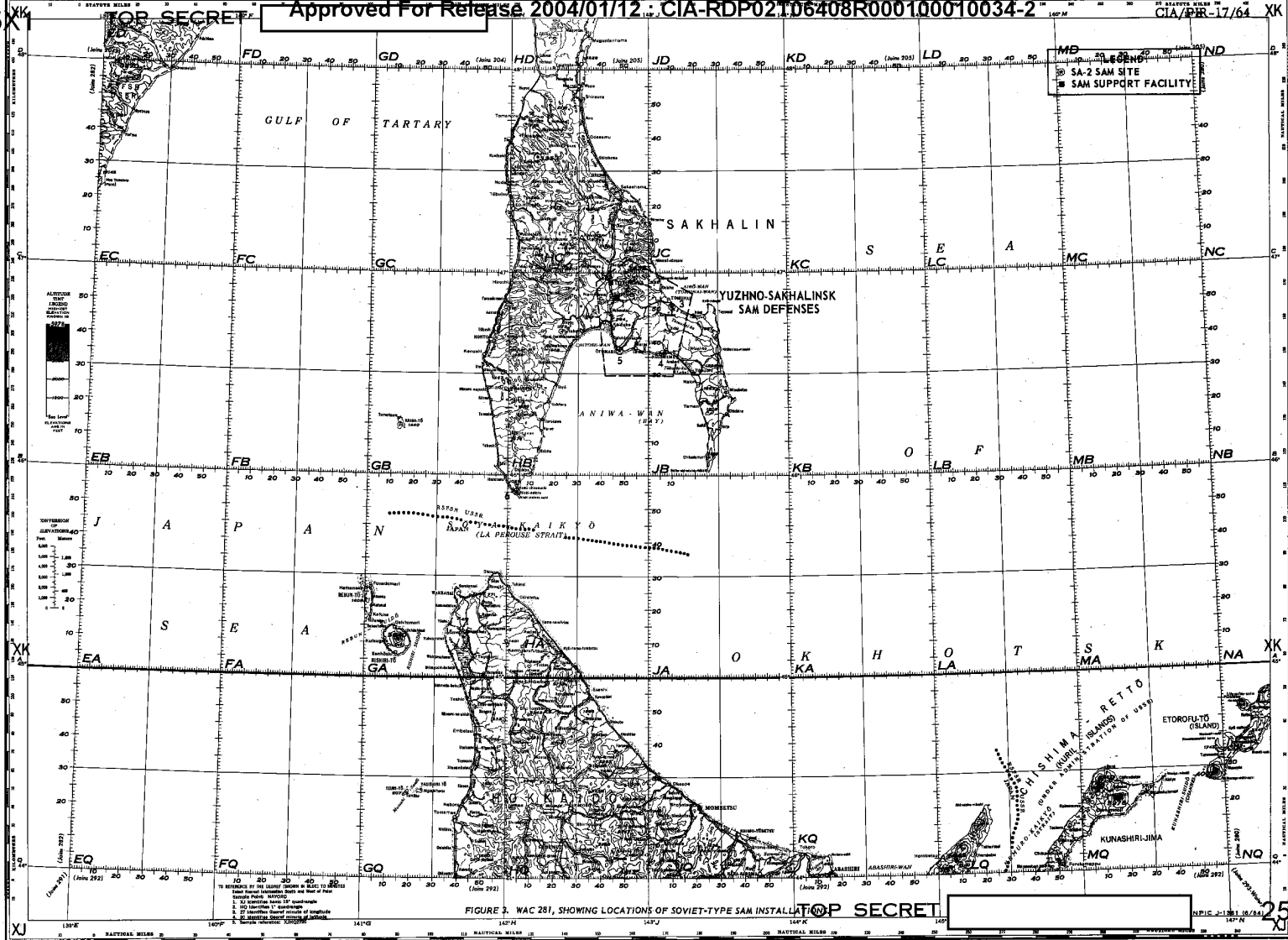


FIGURE 3. WAC 281, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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SOYA STRAIT (281)
JAPAN-U.S.S.R.

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Table 2. SAM Installations on WAC 282

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Barano-Orenburgskoye SAM Defenses (in defense of Barano-Orenburgskoye MRBM Complex, and Golenki Airfield)							
1	Barano-Orenburgskoye MRBM Complex SAM Site A34-2, [REDACTED]	44-26-15N 131-22-40E	UR 0282-21	SA-2, star			
2	Barano-Orenburgskoye SAM Support Facility, [REDACTED]	44-27-00N 131-22-35E	UR 0389-21	Type II (square)			
3	Barano-Orenburgskoye MRBM Complex SAM Site B08-2, [REDACTED]	44-27-40N 131-35-30E	UR 0389-21	SA-2, skull			
4	Barano-Orenburgskoye MRBM Complex SAM Site B19-2, [REDACTED]	44-02-40N 131-24-15E	UR 0282-21	SA-2, star			
5	Barano-Orenburgskoye MRBM Complex SAM Site B12-2, [REDACTED]	44-10-05N 131-45-00E	UR 0282-21	SA-2, skull			
B. Kremovo SAM Defenses (in defense of Kremovo MRBM Complex and Golenki Airfield)							
6	Chernigovka SAM Site B25-2, [REDACTED]	44-12-30N 132-11-00E	UR 0282-21	SA-2, skull			
7	Usuriysk SAM Site B04-3, [REDACTED]	44-00-55N 132-11-50E	UR 0282-21	SA-3, configuration undetermined			
8	Usuriysk SAM Site C07-3, [REDACTED]	44-02-10N 132-30-00E	UR 0282-21	SA-3, configuration undetermined			
9	Chernigovka SAM Site A20-2, [REDACTED]	44-10-50N 132-30-00E	UR 0282-21	SA-2, star			
C. Novosyoyevka SAM Defenses (in defense of Novosyoyevka IRBM Complex)							
10	Chernyshevka SAM Site A26-2, [REDACTED]	44-10-50N 133-05-10E	UR 0282-22	SA-2, skull			
11	Chernyshevka SAM Support Facility, [REDACTED]	44-12-00N 133-10-10E	UR 0282-21	Type II (square)			
12	Dostoyevka SAM Site A03-2, [REDACTED]	44-21-30N 133-30-40E	UR 0282-22	SA-2, skull			
13	Novosyoyevka IRBM Complex SAM Site C09-2	44-10-50N 133-57-00E	UR 0282-22	SA-2, skull			

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(282) G KHANKA LAKE

WORLD AERONAUTICAL CHART

(282) G

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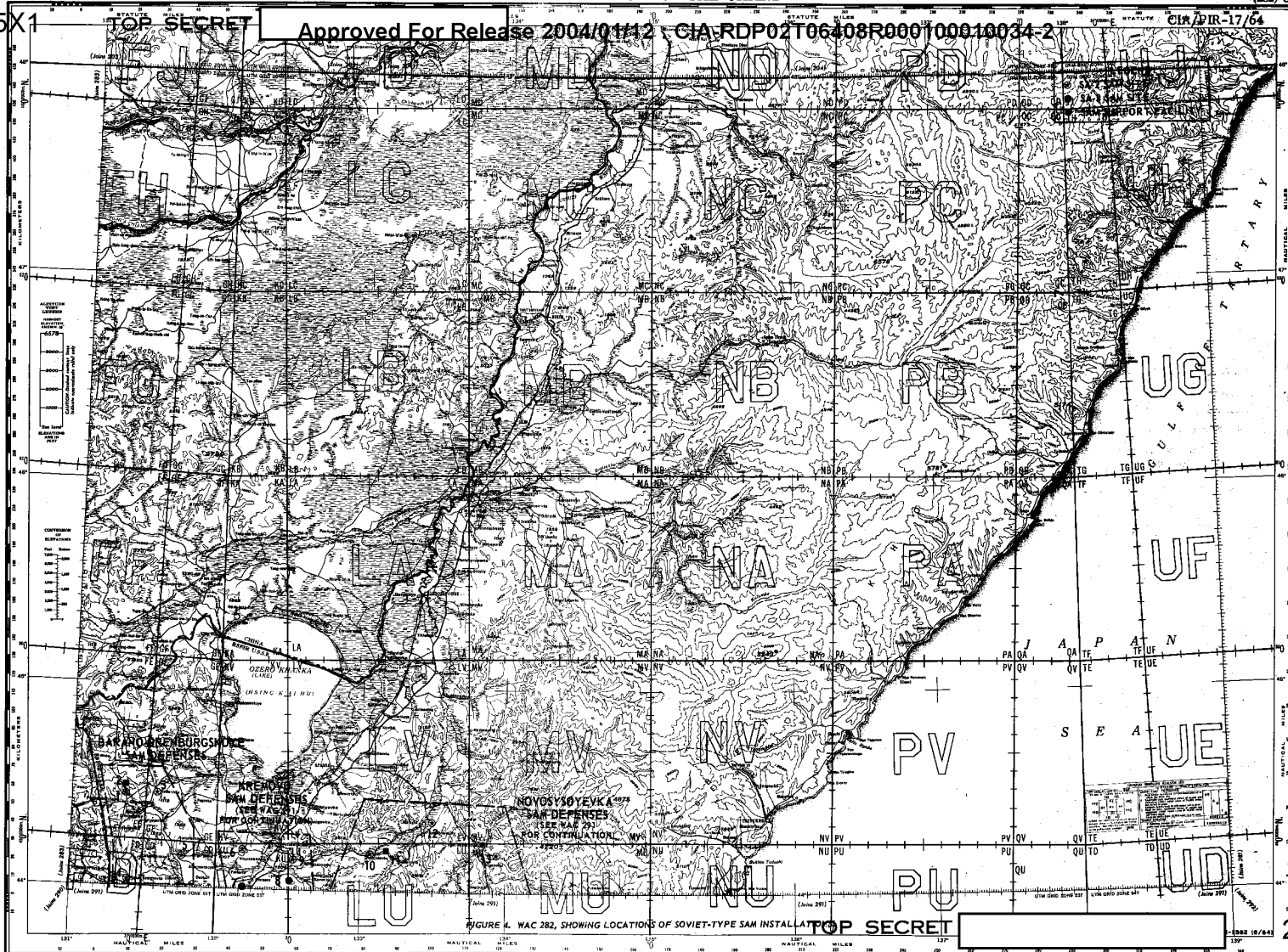


FIGURE 4. WAC 282, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

(282) G

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KHANKA LAKE (282) G
CHINA-U.S.S.R.

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Table 3. SAM Installations on WAC 287

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Shuang-cheng-tzu (China) SAM Defenses (in defense of Shuang-cheng-tzu Missile Test Center, R & D facility for SSMs, SAMs, AAMs, and ASMs)							
1	Shuang-cheng-tzu Missile Test Center SAM Site, [REDACTED]	41-06-30N 100-20-03E	Ch AMS ESPA NK 47A	SA-2, star	[REDACTED]		
2	Shuang-cheng-tzu Missile Test Center SAM Launch Complex	41-04-08N 100-20-00E	Ch AMS ESPA NK 47A	See remarks	[REDACTED]		SAM Launch Complex consists of two fan-type SAM sites.

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(287) KA-SHUN LAKE

WORLD AERONAUTICAL CHART

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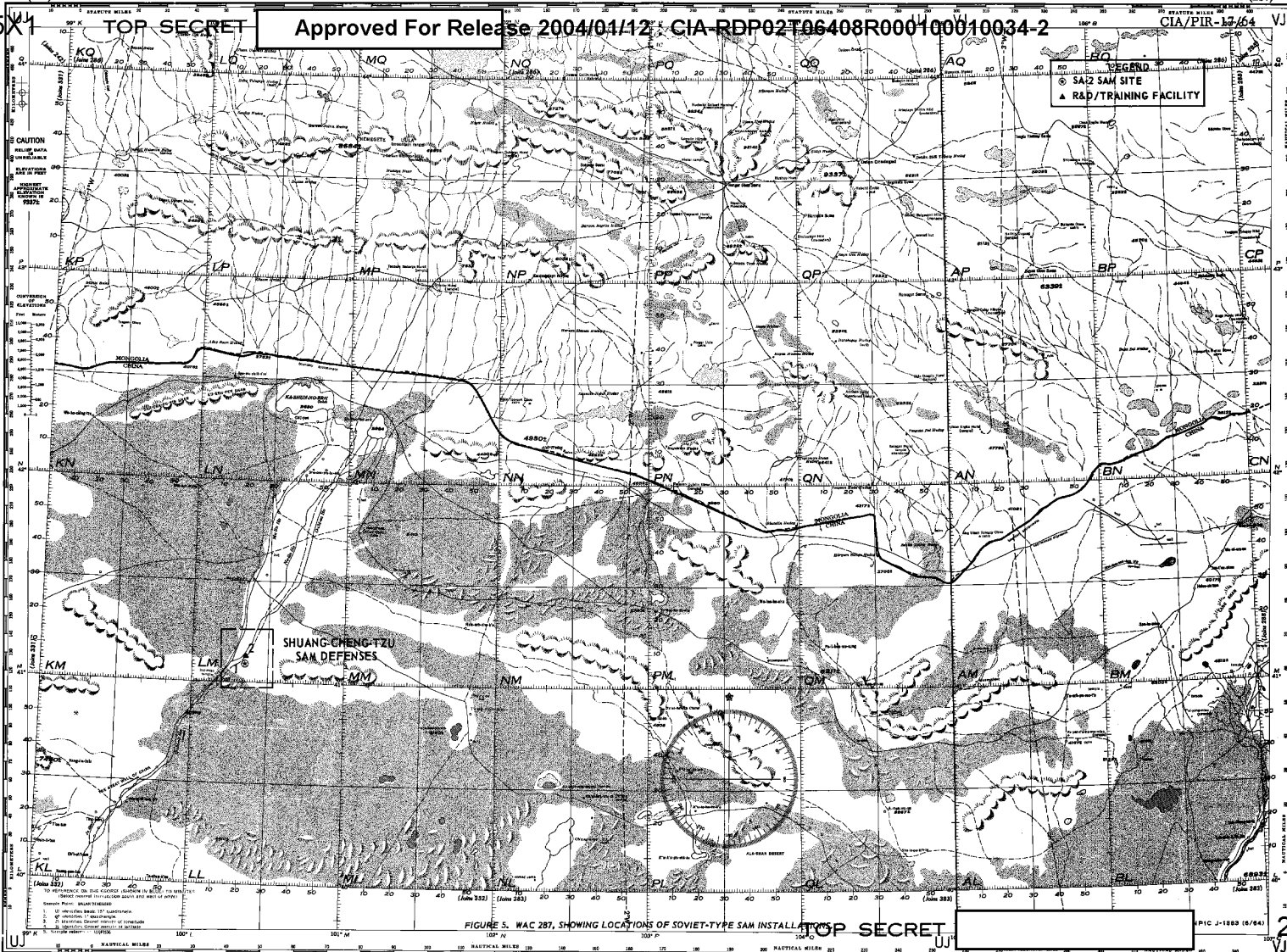


FIGURE 5. WAC 287, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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KA-SHUN LAKE
CHINA-MICHOWIA

(287)

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Table 4. SAM Installations on WAC 289

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Peiping (China) SAM Defenses (in defense of Peiping, capital of Communist China: military center--military airfields, atomic research institute, missile research and development center, numerous military installations--and industrial center--steel plants, chemical works, ordnance plants, and foundries)							
1	Peiping SAM Site B85-2 [REDACTED]	40-08-20N 116-18-25E	Ch 0289-21	SA-2, Link	[REDACTED]		

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(289) GULF OF LIAOTUNG

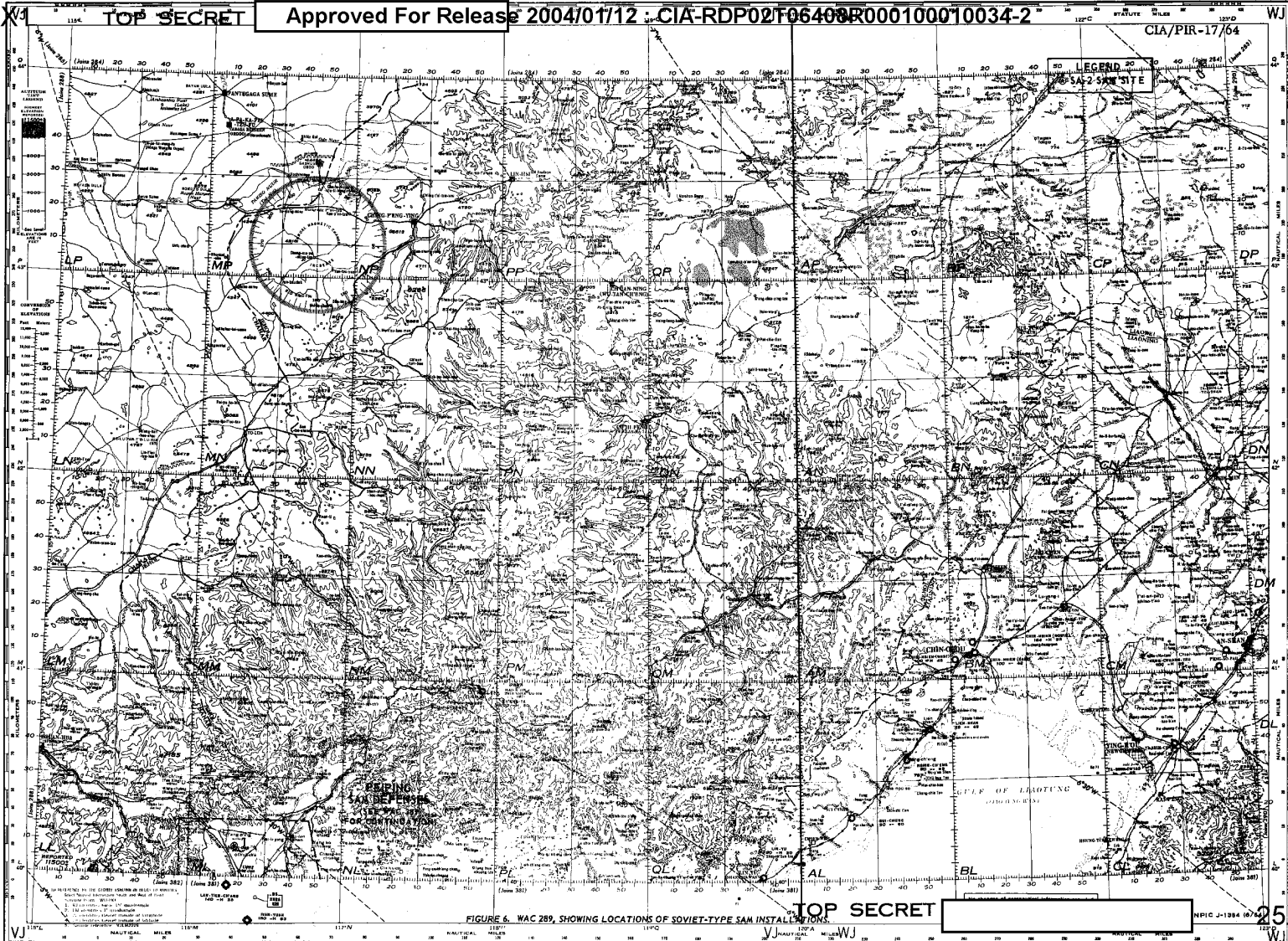
WORLD AERONAUTICAL CHART

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GULF OF LIAOTUNG (289)

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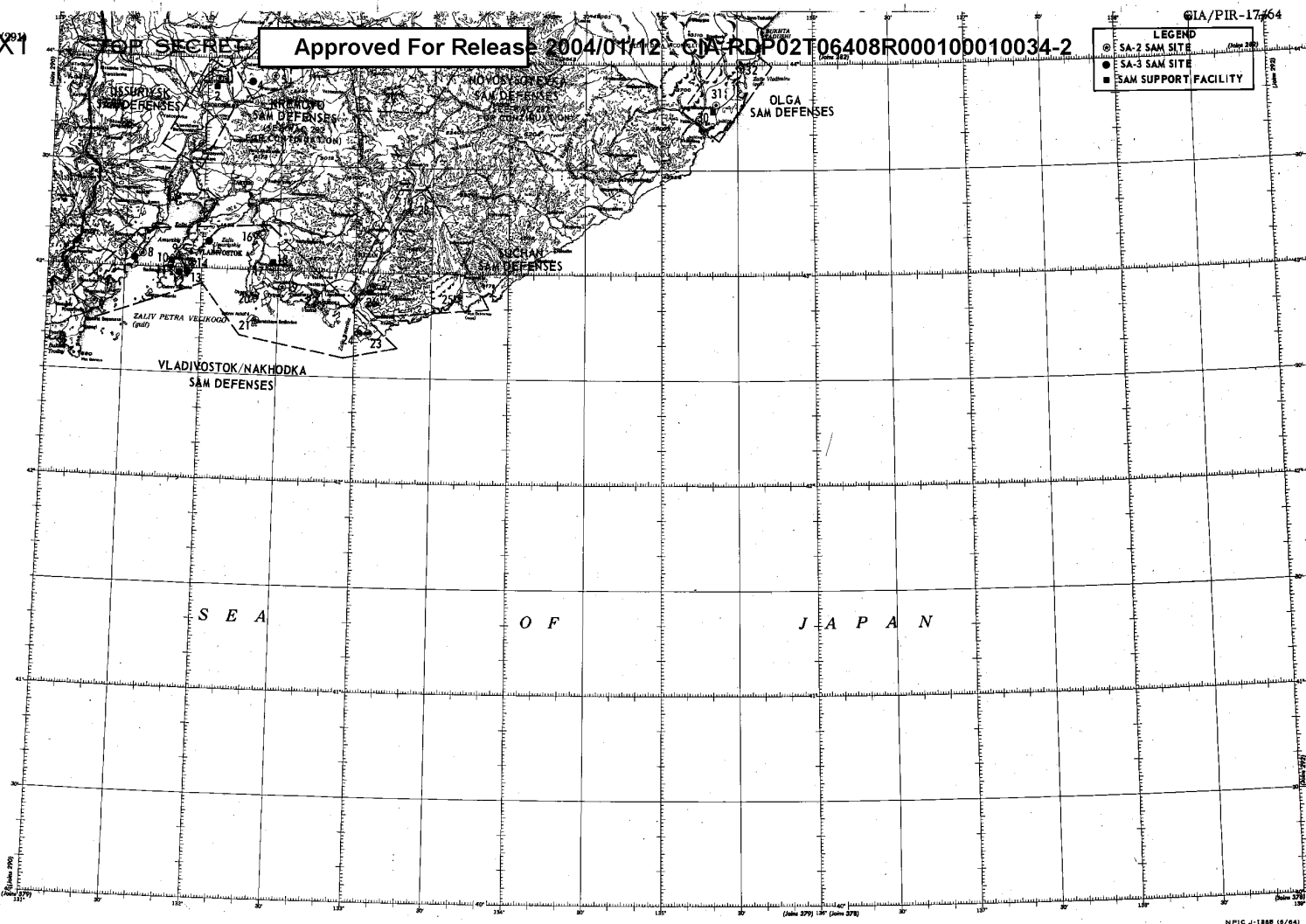
Table 5. SAM Installations on WAC 291

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks			
A. Ussuriysk SAM Defenses (in defense of Ussuriysk: industrial-locomotive and car repair shops; and military center--ammo storage, POL storage, and 11 military airfields within 20-nautical-mile radius of Ussuriysk)										
1	Ussuriysk SAM Site B18-2, [REDACTED]	48-35-06N 131-58-58E	UR 0291-1	SA-2, probable link						
2	Ussuriysk SAM Support Facility, [REDACTED]	48-51-45N 132-02-10E	UR 0291-1	Type II (square)						
3	Ussuriysk SAM Site A04-2, [REDACTED]	48-53-25N 132-03-00E	UR 0291-1	SA-2, star						
B. Kremovo SAM Defenses (in defense of Kremovo MRBM Complex and Golenki Airfield)										
4	Ussuriysk SAM Site B08-3, [REDACTED]	49-50-10N 132-16-50E	UR 0291-1	SA-3, configuration undetermined						
5	Ussuriysk SAM Site C08-2, [REDACTED]	49-54-30N 132-26-20E	UR 0291-1	SA-2, chevron						
C. Vladivostok/Nakhodka SAM Defenses (in defense of Vladivostok, largest and most important military center and naval base in the Soviet Far East, and Nakhodka--major naval base)										
6	Vladivostok SAM Site D25-2, [REDACTED]	42-49-45N 131-17-00E	UR 0291-6	SA-2, link			Proximity to buildings and Petrovka SAM Support Facility suggests a training role for this site.			
7	Vladivostok SAM Site B26-3, [REDACTED]	43-02-25N 131-33-00E	UR 0291-6	SA-3, configuration F						
8	Vladivostok SAM Site B27-2, [REDACTED]	43-03-55N 131-35-40E	UR 0291-6	SA-2, link						
9	Vladivostok SAM Site A24-2, [REDACTED]	43-02-45N 131-49-40E	UR 0291-6	SA-2, probable link						
10	Vladivostok SAM Support Facility, [REDACTED]	43-01-10N 131-47-20E	UR 0291-6	Type I (rectangular)						
11	Vladivostok SAM Site A23-2, [REDACTED]	43-00-15N 131-47-40E	UR 0291-6	SA-2, fan						
12	Vladivostok SAM Site A22-3, [REDACTED]	42-58-55N 131-48-10E	UR 0291-6	SA-3, configuration F						
13	Vladivostok SAM Site A19-3, [REDACTED]	42-58-30N 131-54-50E	UR 0291-6	SA-3, configuration F						
14	Vladivostok SAM Site A19-2, [REDACTED]	42-58-50N 131-55-15E	UR 0291-6	SA-2, fan						
15	Vladivostok SAM Site A07-3, [REDACTED]	43-07-40N 132-02-20E	UR 0291-6	SA-3, configuration F						
16	Vladivostok SAM Site B06-2, [REDACTED]	43-10-10N 132-20-20E	UR 0291-6	SA-2, fan						
17	Vladivostok SAM Site C11-2, [REDACTED]	43-00-50N 132-25-40E	UR 0291-6	SA-2, configuration undetermined						
18	Petrovka SAM Support Facility, [REDACTED]	43-00-55N 132-26-20E	UR 0291-6	Type I (rectangular)						
19	Nakhodka SAM Site B29-2, [REDACTED]	42-54-40N 132-30-45E	UR 0291-6	SA-2, link						
20	Vladivostok SAM Site C13-2, [REDACTED]	42-52-00N 132-30-00E	UR 0291-6	SA-2, fan						
21	Vladivostok SAM Site C14-2, [REDACTED]	42-45-25N 132-21-05E	UR 0291-6	SA-2, link						
22	Nakhodka SAM Site A28-2, [REDACTED]	42-50-30N 132-46-20E	UR 0291-7	SA-2, link						
23	Nakhodka SAM Site B15-2, [REDACTED]	42-42-15N 132-02-45E	UR 0291-7	SA-2, fan						
24	Nakhodka SAM Site B15A-2, [REDACTED]	42-42-20N 132-01-45E	UR 0291-7	SA-2, configuration undetermined						
D. Suchan SAM Defenses (in defense of Suchan MRBM Complex)										
25	Kiyevka SAM Site A22-2, [REDACTED]	42-52-50N 132-40-00E	UR 0291-7	SA-2, star						
26	Nakhodka SAM Support Facility, [REDACTED]	42-54-20N 132-05-50E	UR 0291-7	Type II (square)						
27	Nakhodka SAM Site B07-2, [REDACTED]	42-55-20N 132-06-30E	UR 0291-7	SA-2, link						
28	Suchan MRBM Complex SAM Site B01-2, [REDACTED]	42-17-25N 132-20-00E	UR 0291-2	SA-2, skull						
E. Novosoyevka SAM Defenses (in defense of Novosoyevka IRBM Complex)										
29	Novosoyevka IRBM Complex SAM Site C21-2, [REDACTED]	43-50-30N 133-16-00E	UR 0291-2	SA-2, fan						
F. Olga SAM Defenses (in defense of Olga Bay Submarine Base, Olga Air Defense Sector Headquarters, and Vladimira submarine base and naval facility)										
30	Olga SAM Support Facility, [REDACTED]	43-46-50N 135-19-50E	UR 0291-3	Type II (square)						
31	Olga SAM Site A05-2, [REDACTED]	43-47-35N 135-21-00E	UR 0291-3	SA-2, fan						
32	Olga SAM Site B04-2, [REDACTED]	43-58-50N 135-31-00E	UR 0291-3	SA-2, configuration undetermined						

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Table 6. SAM Installations on WAC 322

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Tirane (Albania) SAM Defenses (in defense of Tirane, capital of Albania, and an important military center)							
1	Tirane SAM Site B29-2, [REDACTED]	41-22-08N 19-51-42E	AL 0822-16	SA-2, link	[REDACTED]		
2	Tirane SAM Support Facility, [REDACTED]	41-16-10N 19-42-55E	AL 0822-16	Type I (rectangular)			
B. Sofia to Burgas (Bulgaria) SAM Defenses (in defense of the southern border of Bulgaria: Sofia, capital of Bulgaria, major transportation and industrial production center-- machinery, carbide, chemical, and electrical equipment; iron and steel plant at Dimitrovo; Plovdiv, important transportation and military center, including two military airfields; Burgas, Black Sea port and naval base)							
3	Sofia SAM Site B33-2, [REDACTED]	42-56-30N 23-06-00E	BU 0822-8	SA-2, fan	[REDACTED]		
4	Sofia SAM Site C24-2, [REDACTED]	42-25-06N 22-47-30E	BU 0822-8	SA-2, fan			
5	Stanke Dimitrov SAM Site A25-2, [REDACTED]	42-18-15N 22-58-50E	BU 0822-13	SA-2, fan			
6	Sofia SAM Site C21-2, [REDACTED]	42-21-00N 23-07-00E	BU 0822-13	SA-2, fan			
7	Sofia SAM Site B17-2, [REDACTED]	42-24-00N 23-26-00E	BU 0822-8	SA-2, fan			
8	Sofia SAM Site B12-2, [REDACTED]	42-25-00N 23-43-00E	BU 0822-8	SA-2, fan			
9	Sofia SAM Site D12-2, [REDACTED]	42-22-10N 23-59-00E	BU 0822-14	SA-2, fan			
10	Plovdiv SAM Site B30-2, [REDACTED]	42-14-10N 24-28-50E	BU 0822-14	SA-2, fan			
11	Plovdiv SAM Site B22-2, [REDACTED]	41-55-50N 24-37-40E	BU 0822-14	SA-2, fan			
12	Plovdiv SAM Support Facility, [REDACTED]	42-04-20N 24-51-80E	BU 0822-14	Type II (square)			
13	Plovdiv SAM Site B12-2, [REDACTED]	42-02-10N 25-05-85E	BU 0822-14	SA-2, fan			
14	Khaskovo SAM Site A23-2, [REDACTED]	41-53-05N 25-30-10E	BU 0822-15	SA-2, fan			
15	Kharmali SAM Site A33-2, [REDACTED]	41-58-50N 25-50-50E	BU 0822-15	SA-2, fan			
16	Elkhovo SAM Site A27-2, [REDACTED]	42-10-40N 26-28-40E	BU 0822-15	SA-2, link			
17	Elkhovo SAM Site B05-2, [REDACTED]	42-20-00N 26-47-20E	BU 0822-15	SA-2, fan			

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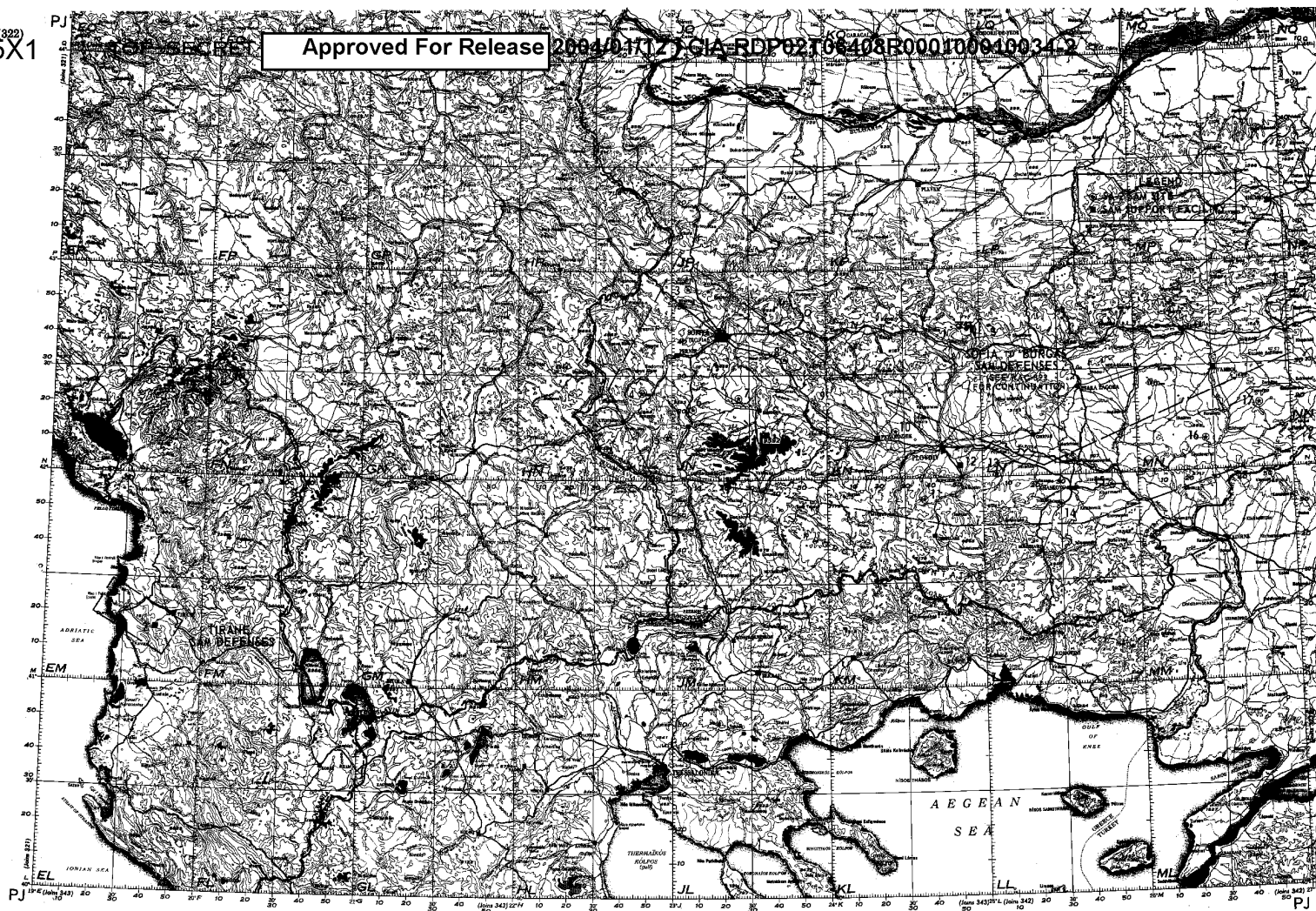
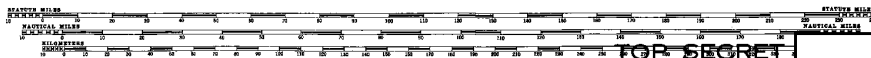


FIGURE 8. WAC 322, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.



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BALKAN MOUNTAINS (322)
ALBANIA, BULGARIA, GREECE, ROMANIA, TURKEY, YUGOSLAVIA

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Table 7. SAM Installations on WAC 323

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Sofia to Burgas (Bulgaria) SAM Defenses (in defense of the southern border of Bulgaria: Sofia, capital of Bulgaria, major transportation and industrial production center--machinery, carbide, chemical, and electrical equipment; iron and steel plant at Dimitrovo; Plovdiv, important transportation and military center, including two military airfields; Burgas, Black Sea port and naval base)							
1	Burgas SAM Site B23-2, 	43-20-40N 27-18-10E	BU 0323-11	SA-2, link	 		
2	Burgas SAM Site B13-2, 	42-22-40N 27-41-50E	BU 0323-11	SA-2, link	 		
B. Varna (Bulgaria) SAM Defenses (in defense of Varna, major Bulgarian port on the Black Sea: Varna Naval Base and shipyards, Headquarters Bulgarian Black Sea fleet)							
3	Varna SAM Sites B19-2, 	43-01-45N 27-52-30E	BU 0323-6	SA-2, fan	 		
4	Varna SAM Support Facility	43-19-30N 27-46-20E	BU 0323-1	Type II (square)	 		
5	Varna SAM Site A05-2, 	43-19-50N 28-03-15E	BU 0323-1	SA-2, fan	 		

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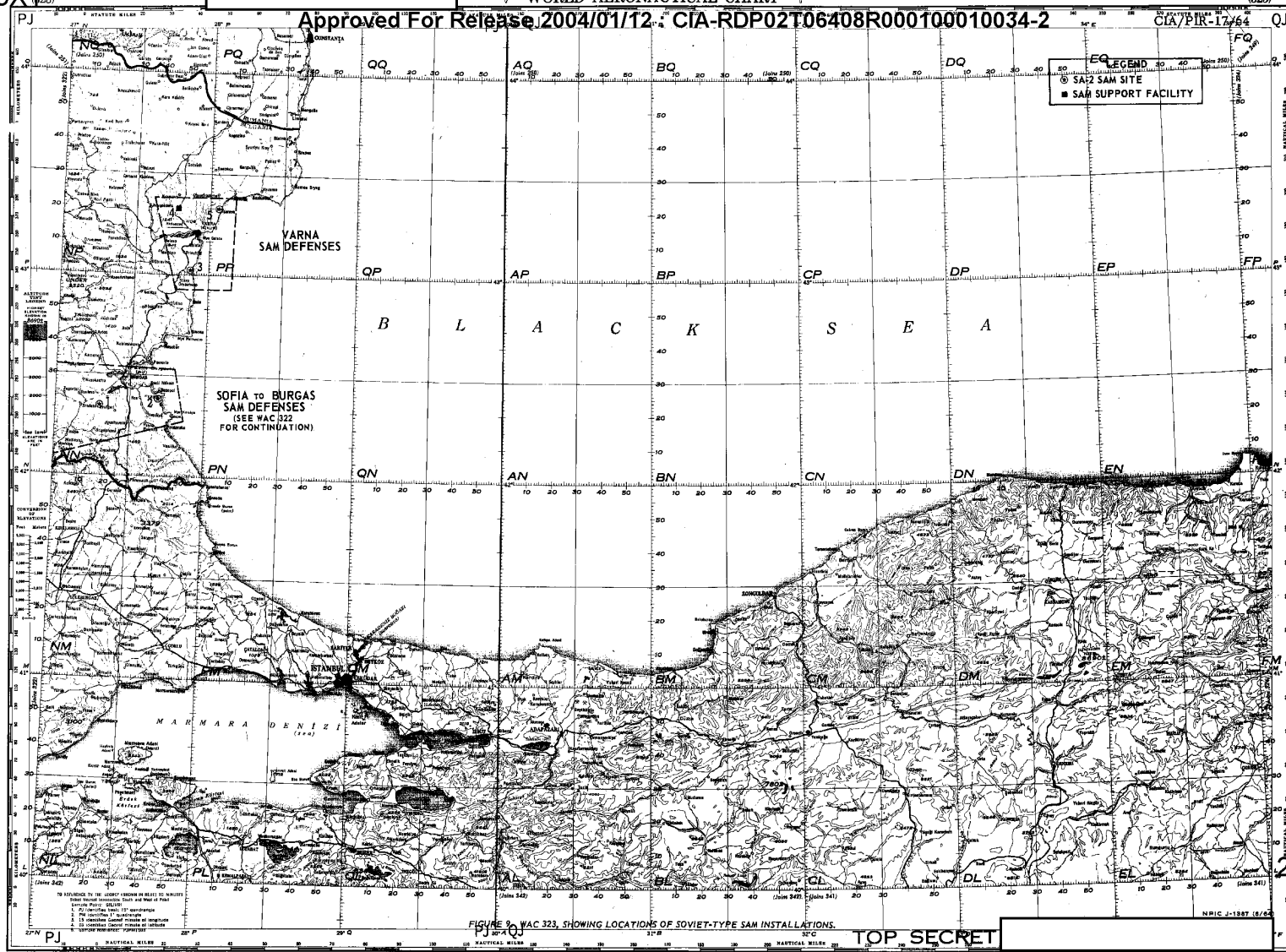


FIGURE 9. WAC 323, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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MARMARA SEA (823)
BULGARIA-ROMANIA-TURKEY

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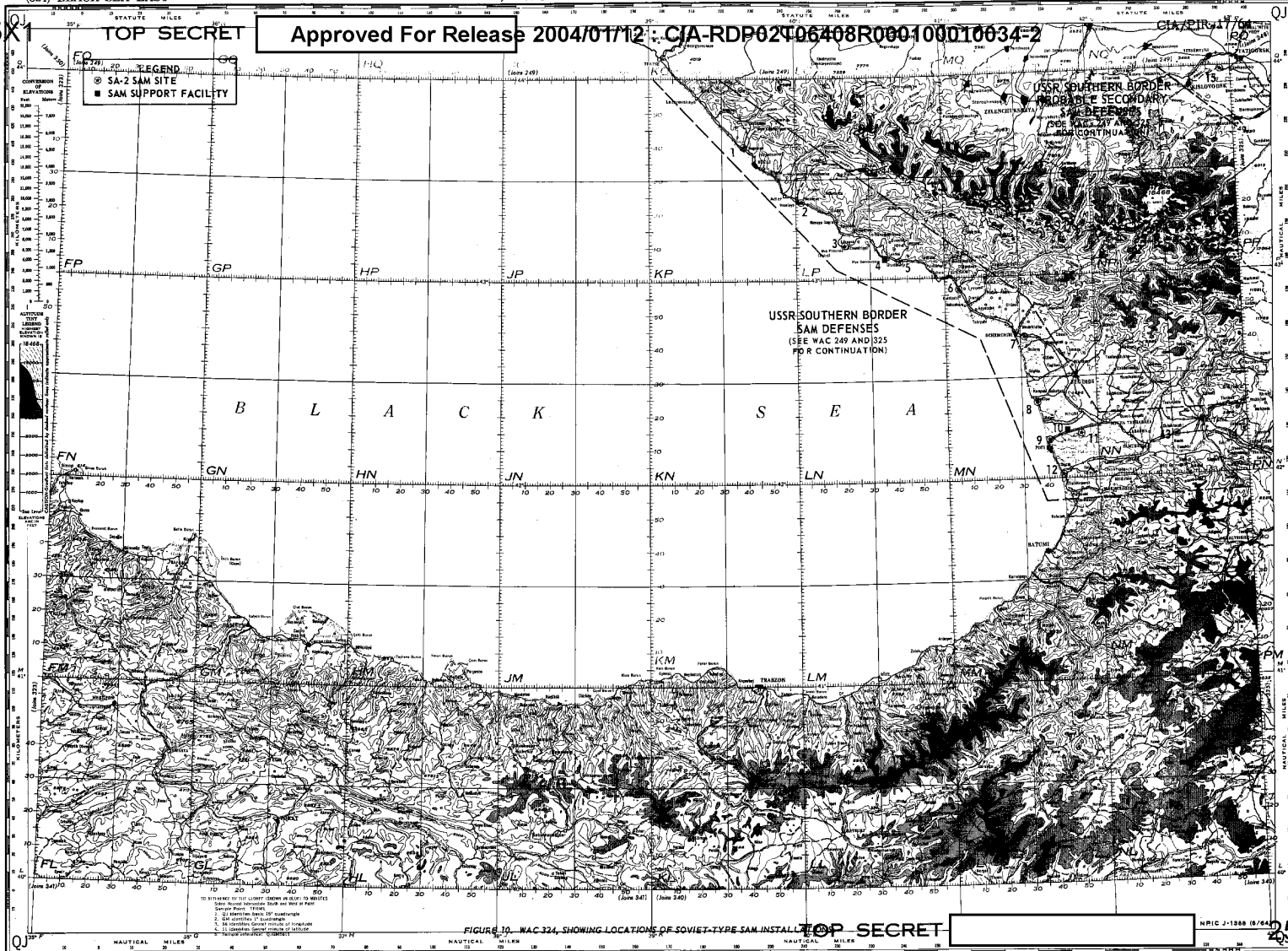
Table 8. SAM Installations on WAC 324

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. USSR Southern Border SAM Defenses (in defense of the southern border of the USSR, and Sukhumi, a port on the Black Sea with port facilities, seaplane base, and government control center; Gudauta Airfield; Ochamchire Naval Base; Poti, a major port on the Black Sea; Poti Naval Base, and seaplane base; and Kutaisi, a military and light industrial complex containing a motor vehicle plant and military airfield)							
1	Sochi SAM Site A33-2, [REDACTED]	43-39-50N 39-35-45E	UR 0324-3	SA-2, link	[REDACTED]		
2	Adler SAM Site A11-2, [REDACTED]	43-23-40N 40-02-00E	UR 0324-4	SA-2, link			
3	Gudauta SAM Site B39-2, [REDACTED]	43-10-00N 40-19-30E	UR 0324-9	SA-2, fan			
4	Gudauta SAM Support Facility, [REDACTED]	43-06-30N 40-36-30E	UR 0324-9	Type II (square)			
5	Gudauta SAM Site A11-2, [REDACTED]	43-05-30N 40-42-30E	UR 0324-9	SA-2, fan			
6	Sukhumi SAM Site A15-2, [REDACTED]	42-56-15N 41-05-00E	UR 0324-9	SA-2, fan			
7	Ochamchire SAM Site A09-2, [REDACTED]	42-42-40N 41-31-20E	UR 0324-10	SA-2, fan			
8	Poti SAM Site B35-2, [REDACTED]	42-22-50N 41-35-20E	UR 0324-15	SA-2, fan			
9	Poti SAM Site A35-2, [REDACTED]	42-12-00N 41-39-30E	UR 0324-15	SA-2, link			
10	Poti SAM Support Facility, [REDACTED]	42-14-00N 41-46-30E	UR 0324-15	Type I (rectangular)			
11	Poti SAM Site B07-2, [REDACTED]	42-13-30N 41-53-40E	UR 0324-15	SA-2, link			
12	Poti SAM Site A15-2, [REDACTED]	42-01-50N 41-45-40E	UR 0324-15	SA-2, link			
13	Kutaisi SAM Site A26-2, [REDACTED]	42-12-40N 42-31-10E	UR 0324-15	SA-2, link			
14	Kutaisi SAM Site B11-2, [REDACTED]	42-12-30N 42-59-10E	UR 0324-15	SA-2, link			
B. USSR Southern Border probable secondary SAM Defenses (this site forms part of a probable secondary barrier stretching between the Black and Caspian Seas)							
15	Pyatigorsk SAM Site A25-2, [REDACTED]	43-59-11N 42-55-40E	UR 0324-5	SA-2, star	[REDACTED]		

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Table 9. SAM Installations on WAC 325

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. USSR Southern Border Probable Secondary SAM Defenses (These sites form a probable secondary barrier in defense of the southern border of the USSR, and also defend Nalchik, minor complex containing several explosives-storage areas; Ordzhonikidze, ore processing plants and POL storage; Groznyy, major POL complex including airfields, POL refineries and POL production equipment plants; Groznyy MRBM Complex; Gelli IRBM Complex; Makhachkala Caspian Sea port containing POL storage and transshipment facilities, ship equipment plant, munitions plant)							
1	Nalchik SAM Site B33-2, [REDACTED]	43-40-30N 43-24-30E	UR 0325-1	SA-2, configuration undetermined			
2	Nalchik SAM Support Facility, [REDACTED]	43-32-00N 43-37-00E	UR 0325-1	Type II (square)			
3	Nalchik SAM Site A17-2, [REDACTED]	43-19-20N 43-40-25E	UR 0325-1	SA-2, configuration undetermined			
4	Ordzhonikidze SAM Site C29-2, [REDACTED]	43-08-18N 44-27-20E	UR 0325-8	SA-2, star			
5	Ordzhonikidze SAM Site A08-2, [REDACTED]	43-04-30N 44-46-00E	UR 0325-7	SA-2, star			
6	Ordzhonikidzevskaya SAM Support Facility, [REDACTED]	43-19-00N 45-02-20E	UR 0325-2	Type II (square)			
7	Groznyy SAM Site B26-2, [REDACTED]	43-12-05N 45-15-00E	UR 0325-2	SA-2, configuration undetermined			
8	Groznyy SAM Site B22-2, [REDACTED]	43-08-50N 45-29-10E	UR 0325-7	SA-2, link			
9	Groznyy SAM Support Facility, [REDACTED]	43-14-40N 45-33-30E	UR 0325-2	Type II (square)			
10	Groznyy SAM Site A05-2, [REDACTED]	43-24-50N 45-47-40E	UR 0325-2	SA-2, link			
11	Khasavyurt SAM Site A28-2, [REDACTED]	43-16-00N 46-26-10E	UR 0325-3	SA-2, star			
12	Makhachkala SAM Site B23-2, [REDACTED]	42-44-10N 47-14-20E	UR 0325-8	SA-2, fan			
13	Makhachkala SAM Support Facility, [REDACTED]	42-56-10N 47-33-40E	UR 0325-8	Type II (square)			
14	Makhachkala SAM Site A14-2, [REDACTED]	42-56-00N 47-34-00E	UR 0325-8	SA-2, star			
15	Makhachkala SAM Site C15-2, [REDACTED]	43-22-40N 47-51-10E	UR 0325-9	SA-2, configuration undetermined			
B. USSR Southern Border SAM Defenses (in defense of the southern border of the USSR, and the following specific targets: Tbilisi, capital of the Georgian SSR, Trans-Caucasian Military District Headquarters, [REDACTED] airframes and machine tool plants; Kirovabad, minor complex containing POL storage facilities; Mingechaur Dam; Kyurdamir Airfield; Baku, major Caspian Sea port-extensive port facilities, shipyard, naval base, and industrial complex-numerous POL refineries, POL storage areas, POL production equipment plants)							
16	Gori SAM Site B06-2, [REDACTED]	42-05-10N 44-20-10E	UR 0325-11	SA-2, configuration undetermined			
17	Tbilisi SAM Site A32-2, [REDACTED]	41-47-00N 44-43-00E	UR 0325-12	SA-2, link			
18	Tbilisi SAM Site B24-2, [REDACTED]	41-35-00N 44-36-00E	UR 0325-17	SA-2, link			
19	Tbilisi SAM Site B15-2, [REDACTED]	41-31-30N 44-58-00E	UR 0325-12	SA-2, configuration undetermined			
20	Tbilisi SAM Support Facility, [REDACTED]	41-37-05N 44-52-56E	UR 0325-12	Type I (rectangular)			
21	Tbilisi SAM Site B08-2, [REDACTED]	41-46-30N 45-02-30E	UR 0325-12	SA-2, link			
22	Tsiteli Tsikaro SAM Site A25-2, [REDACTED]	41-26-45N 46-03-00E	UR 0325-17	SA-2, see remarks			
							Site No 22 has a star configuration within a modified

Site No 22 has a star configuration within a modified link configuration. The ring road is oversized. An unimproved site, consisting of a circular road and nonvetted launch positions, is located approximately one nautical mile northeast of this site at 41-27-46N 46-04-15E. This unimproved site was first seen on [REDACTED] and can be negated on Mission

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(325) MT. KAZBEK

WORLD AERONAUTICAL CHART

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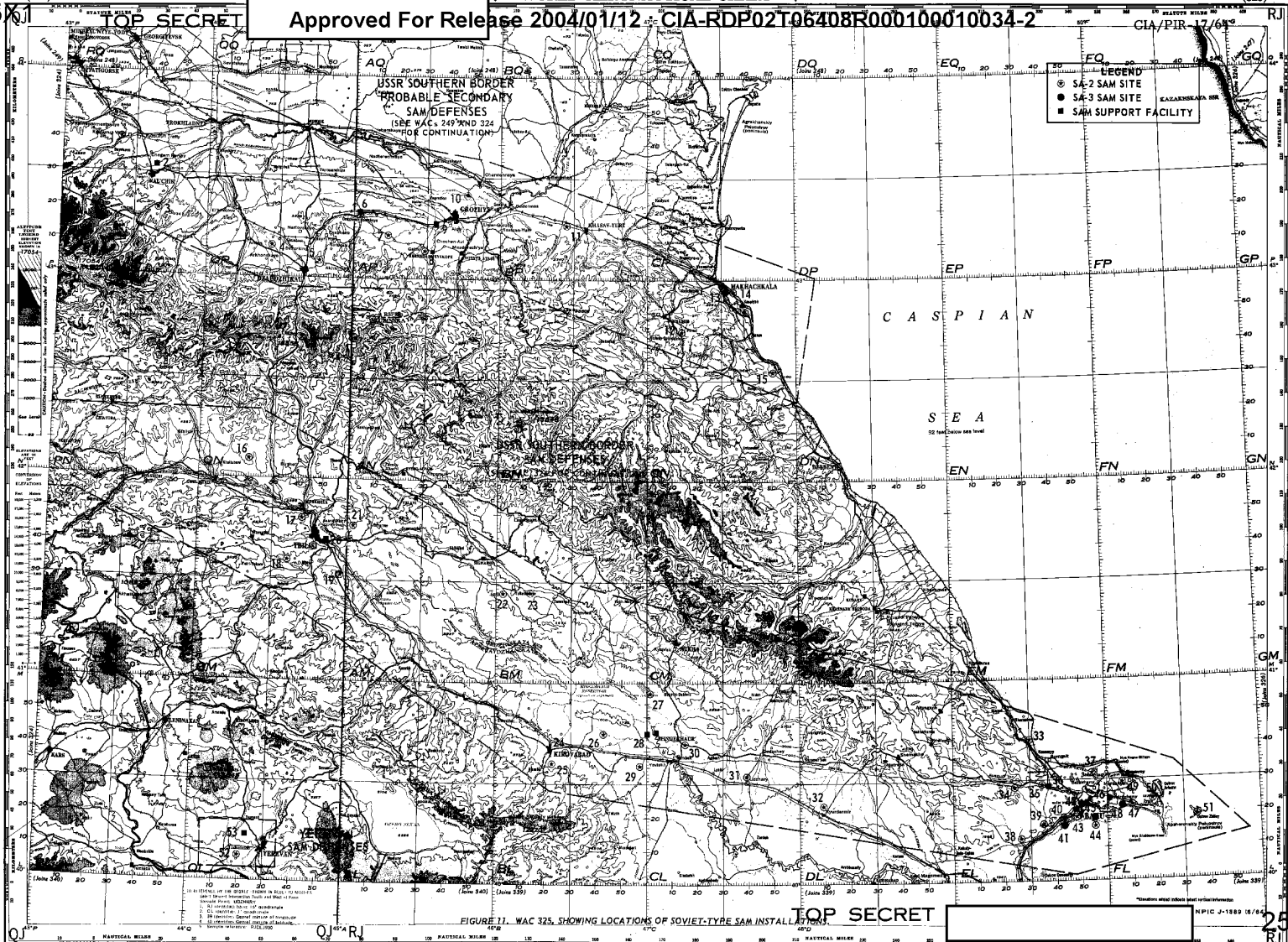


FIGURE 11. WAC 325, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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Table 9. (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
B. USSR Southern Border SAM Defenses (continued)							
23	Tsiteli-Tskaro SAM Site A10-2, [REDACTED]	41-27-20N 46-13-40E	UR 0825-18	SA-2, configuration undetermined			
24	Kirovabad SAM Site A10-2, [REDACTED]	40-40-00N 46-28-30E	UR 0825-23	SA-2, configuration undetermined			
25	Kirovabad SAM Site A16-2, [REDACTED]	40-36-40N 46-23-30E	UR 0825-23	SA-2, configuration undetermined			
26	Mingecheur SAM Site B27-2, [REDACTED]	40-45-00N 46-42-55E	UR 0825-23	SA-2, star			
27	Mingecheur SAM Site B36-2, [REDACTED]	40-57-10N 47-01-20E	UR 0825-18	SA-2, star			
28	Mingecheur SAM Support Facility, [REDACTED]	40-45-10N 47-00-00E	UR 0825-23	Type I (rectangular)			
29	Mingecheur SAM Site B21-2, [REDACTED]	40-35-20N 46-57-40E	UR 0825-23	SA-2, star			
30	Mingecheur SAM Site B11-2, [REDACTED]	40-42-10N 47-15-00E	UR 0825-23	SA-2, star			
31	Mingecheur SAM Site C12-2, [REDACTED]	40-32-42N 47-38-00E	UR 0825-23	SA-2, configuration undetermined			
32	Kyurdamir SAM Site A02-2, [REDACTED]	40-23-00N 48-09-30E	UR 0825-24	SA-2, configuration undetermined			
33	Baku SAM Site C33-2, [REDACTED]	40-42-50N 49-30-30E	UR 0825-25	SA-2, prob link			
34	Baku SAM Site C29-2, [REDACTED]	40-28-40N 49-24-40E	UR 0825-25	SA-2, star			
35	Baku SAM Site B30-2, [REDACTED]	40-29-00N 49-35-00E	UR 0825-25	SA-2, link			
36	Baku SAM Support Facility 3, [REDACTED]	40-29-05N 49-36-10E	UR 0825-25	Type II (square)			
37	Baku SAM Site B02-2, [REDACTED]	40-32-40N 49-54-30E	UR 0825-25	SA-2, fan			
38	Baku SAM Site C25-2, [REDACTED]	40-13-50N 49-26-25E	UR 0825-25	SA-2, fan			
39	Baku SAM Site B25-2, [REDACTED]	40-17-00N 49-35-10E	UR 0825-25	SA-2, configuration undetermined			
40	Baku SAM Site A23-2, [REDACTED]	40-16-45N 49-43-25E	UR 0825-25	SA-2, link			
41	Baku SAM Site A23-2, [REDACTED]	40-16-12N 49-43-30E	UR 0825-25	SA-3, configuration F			
42	Baku SAM Support Facility 2, [REDACTED]	40-30-30N 49-47-30E	UR 0825-25	Type I (rectangular)			
43	Baku SAM Site A22-2, [REDACTED]	40-19-50N 49-46-35E	UR 0825-25	SA-2, fan			
44	Baku SAM Site A16-2, [REDACTED]	40-17-35N 49-54-45E	UR 0825-25	SA-2, fan			
45	Baku SAM Site A16-3, [REDACTED]	40-17-55N 49-54-45E	UR 0825-25	SA-3, configuration F			
46	Baku SAM Support Facility 1, [REDACTED]	40-24-00N 50-01-10E	UR 0825-25	Type I (rectangular)			
47	Baku SAM Site B10-2, [REDACTED]	40-23-30N 50-07-40E	UR 0825-25	SA-2, prob link			
48	Baku SAM Site B10-3, [REDACTED]	40-23-30N 50-07-00E	UR 0825-25	SA-3, configuration F			
49	Baku SAM Site B06-2, [REDACTED]	40-29-40N 50-06-00E	UR 0825-25	SA-2, star			
50	Baku SAM Site B09-2, [REDACTED]	40-24-00N 50-18-00E	UR 0825-25	SA-2, daisy			
51	Baku SAM Site D10-2, [REDACTED]	40-19-20N 50-35-30E	UR 0825-25	SA-2, configuration undetermined			
C. Yerevan SAM Defenses (in defense of Yerevan, major industrial complex including synthetic rubber, chemical, electrical machinery, and aluminum production)							
52	Yerevan SAM Site A25-2, [REDACTED]	40-06-55N 44-19-57E	UR 0825-21	SA-2, link			
53	Yerevan SAM Support Facility	40-12-55N 44-22-48E	UR 0825-21	Type I (rectangular)			

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(325) MT. KAZBEK

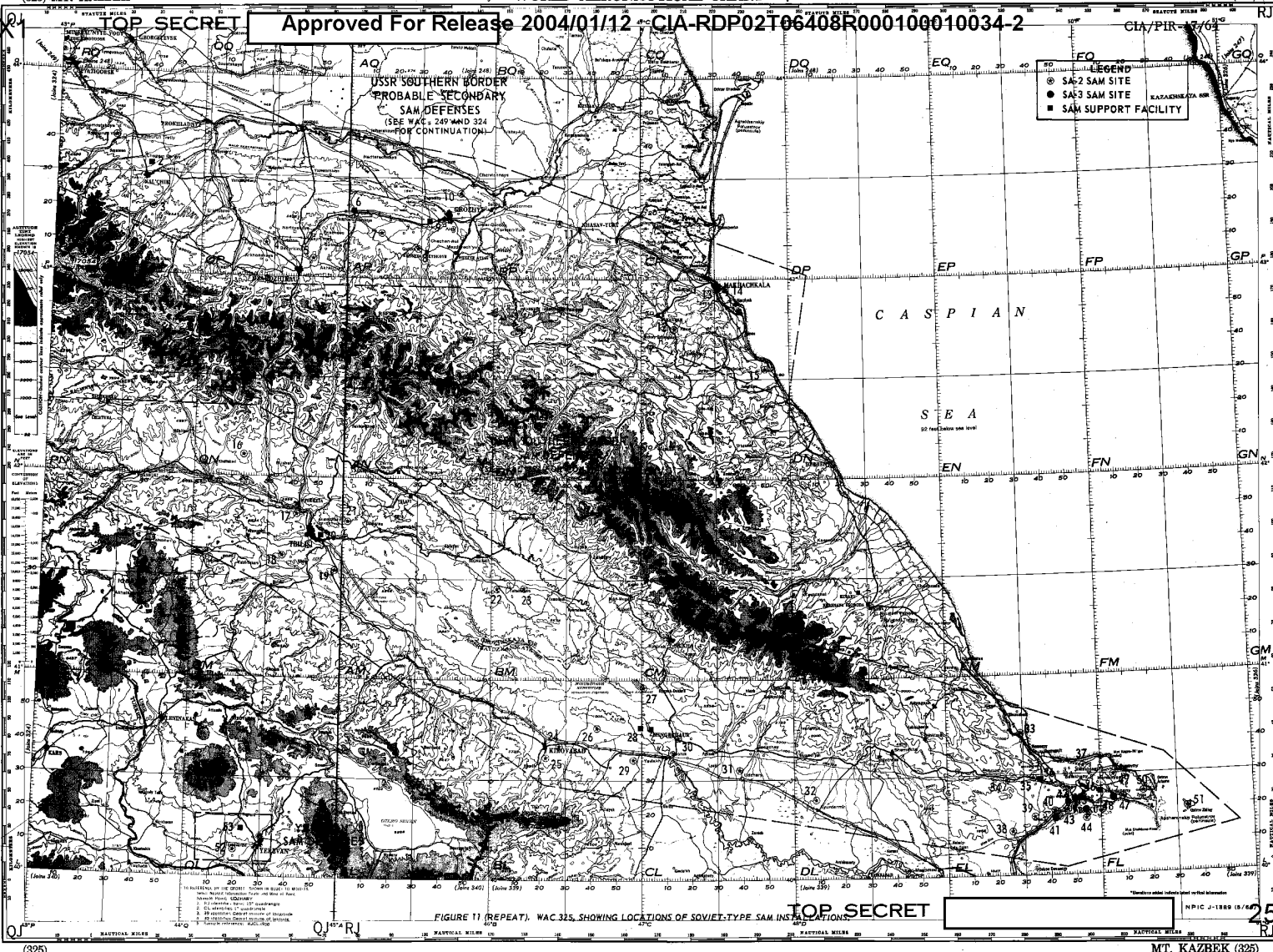
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MT. KAZBEK (325)
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CIA/PIR-17/64

Table 10. SAM Installations on WAC 326

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
Central Asian Border SAM Defenses (in defense of Central Asian border of USSR, and in defense of Krasnovodsk, largest seaport on the east coast of the Caspian Sea and major petroleum center with extensive POL storage facilities)							
1	Krasnovodsk SAM Site A38-2	40-01-00N 52-48-30E	UR 0326-22	SA-2, daisy			
2	Krasnovodsk SAM Site B01-2	40-13-15N 53-01-50E	UR 0326-22	SA-2, link			

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(326) GULF OF KARA-BOGAZ-GOL

WORLD AERONAUTICAL CHART

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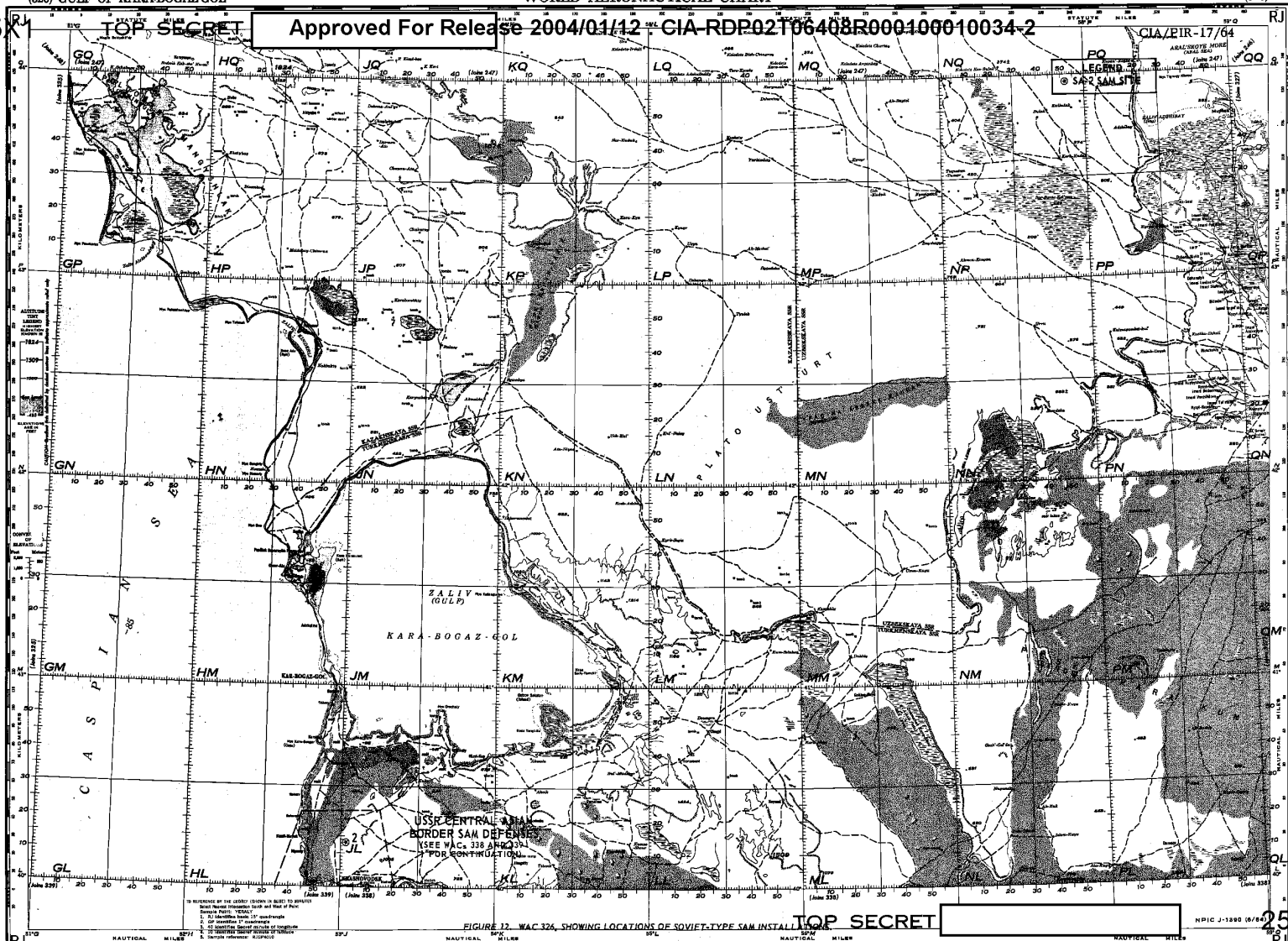


FIGURE 12. WAC 326, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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GULF OF KARA-BOGAZ-GOL (326)

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Table 11. SAM Installations on WAC 328

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR, and specific targets: Tashkent, capital of Uzbek SSR, Headquarters Turkestan Military District, transportation center and industrial center--aircraft assembly, textile production; Chirchik, Air Defense Sector Headquarters, electrochemical combine; Chimkent, lead smelting and refining plants, chemical plants; Dzhanbul, Lugovoy Airfield, jet fighter and bomber base, and a superphosphate plant; Frunze, motor vehicle assembly plant, agricultural machinery plant,							
1	Mirzachul SAM Site B32-2, [REDACTED]	40-59-00N 68-32-30E	UR 0326-21	SA-2, link			
2	Tashkent SAM Site D23-2, [REDACTED]	40-57-40N 68-46-00E	UR 0326-17	SA-2, link			
3	Tashkent SAM Site B22-2, [REDACTED]	41-10-20N 69-08-20E	UR 0326-17	SA-2, link			
4	Tashkent SAM Site B15-2, [REDACTED]	41-08-10N 69-25-40E	UR 0326-17	SA-2, link			
5	Tashkent SAM Support Facility, [REDACTED]	41-20-20N 69-24-60E	UR 0326-17	Type I (rectangular)			
6	Tashkent SAM Site A06-2, [REDACTED]	41-25-28N 69-26-60E	UR 0326-17	SA-2, prob link			
7	Tashkent SAM Site A33-2, [REDACTED]	41-24-10N 69-10-60E	UR 0326-17	SA-2, link			
8	Leninskoye SAM Site A07-2, [REDACTED]	41-46-20N 69-25-00E	UR 0326-12	SA-2, link			
9	Chimkent SAM Site B21-2, [REDACTED]	42-09-05N 69-31-10E	UR 0326-12	SA-2, link			
10	Chimkent SAM Support Facility, [REDACTED]	42-20-20N 69-37-40E	UR 0326-12	Type II (square)			
11	Chimkent SAM Site B06-2, [REDACTED]	42-21-45N 69-54-05E	UR 0326-12	SA-2, link			
12	Bumoye SAM Site C27-2, [REDACTED]	42-55-05N 70-16-45E	UR 0326-8	SA-2, configuration undetermined			
13	Bumoye SAM Site A26-2, [REDACTED]	42-49-10N 70-45-00E	UR 0326-8	SA-2, link			
14	Dzhanbul SAM Site A25-2, [REDACTED]	42-50-20N 71-13-30E	UR 0326-8	SA-2, link			
15	Dzhanbul SAM Site B07-2, [REDACTED]	43-00-00N 71-38-35E	UR 0326-8	SA-2, link			
16	Lugovoy SAM Site C28-2, [REDACTED]	43-00-40N 72-04-50E	UR 0326-9	SA-2, link			
17	Lugovoy SAM Site A29-2, [REDACTED]	43-00-20N 72-31-10E	UR 0326-9	SA-2, link			
18	Lugovoy SAM Site B08-2, [REDACTED]	43-06-30N 73-02-10E	UR 0326-9	SA-2, link			
19	Karabalty SAM Site B31-2, [REDACTED]	42-59-00N 73-28-00E	UR 0326-10	SA-2, link			
20	Frunze SAM Site C26-2, [REDACTED]	42-55-50N 74-02-45E	UR 0326-10	SA-2, link			
21	Frunze SAM Support Facility, [REDACTED]	42-53-10N 74-28-00E	UR 0326-10	Type II (square)			
22	Frunze SAM Site A23-2, [REDACTED]	42-56-25N 74-29-42E	UR 0326-10	SA-2, link			
23	Frunze SAM Site B07-2, [REDACTED]	42-58-10N 72-51-20E	UR 0326-10	SA-2, link			

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(328) CHATKAL'SKIY RANGE

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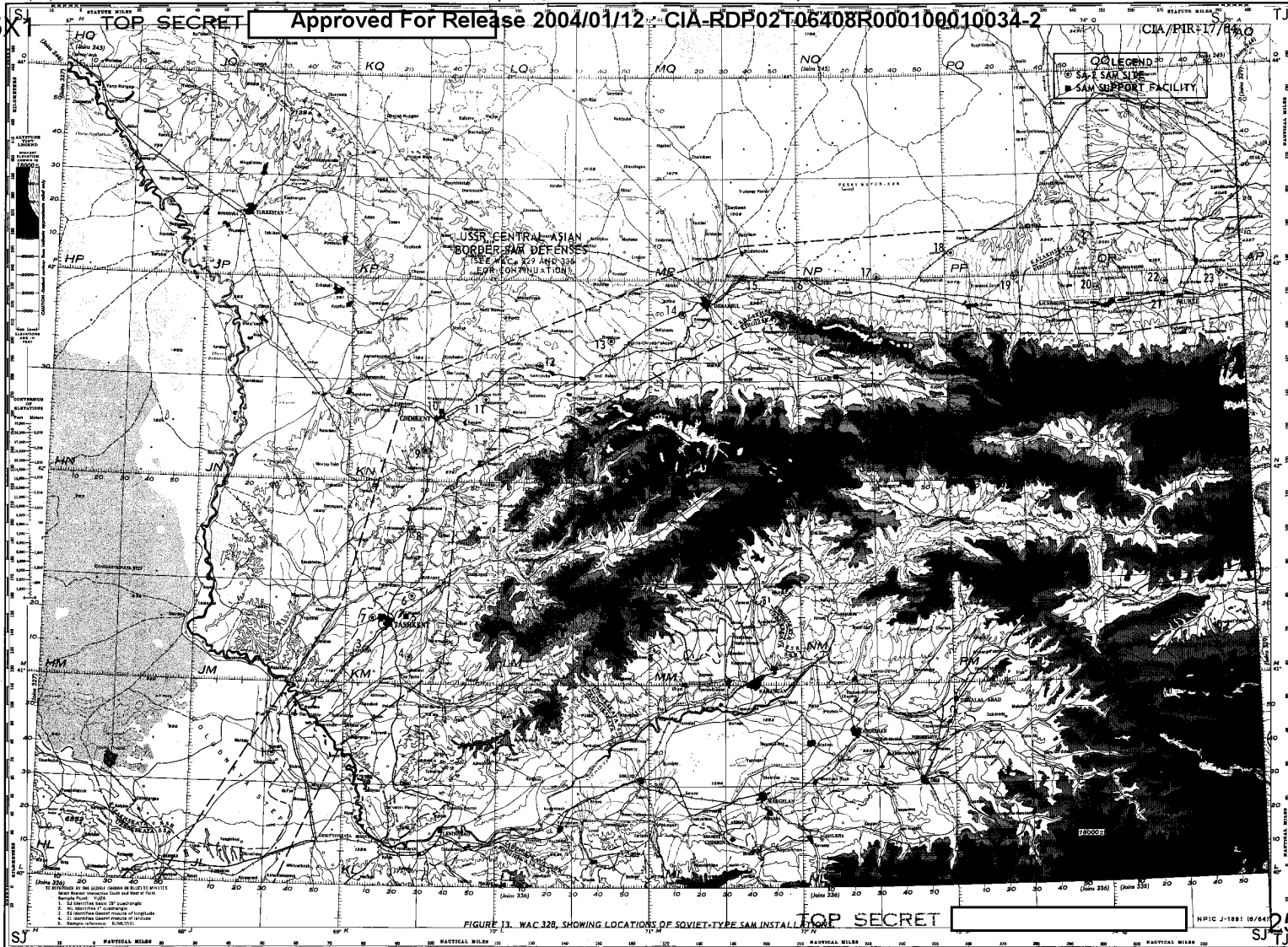


FIGURE 13. WAC 328, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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CHATKAL'SKIY RANGE (328)

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CIA/PIR-17/64

Table 12. SAM Installations on WAC 329

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. USSR Central Asian Border SAM Defenses (in defense of the Central Asian Border of the USSR, and specific targets: Alma-Ata, capital of Kazakh SSR, Air Defense Sector Headquarters, and industrial center--rail repair facilities, machine tool plant, heavy machinery production and munitions production)							
1	Otar SAM Site A13-2, [REDACTED]	43-31-40N 75-13-00E	UR 0329-1	SA-2, link	[REDACTED]		
2	Otar SAM Site B09-2, [REDACTED]	43-33-20N 75-38-15E	UR 0329-1	SA-2, configuration undetermined			
3	Otar SAM Site D11-2, [REDACTED]	43-20-00N 76-01-00E	UR 0329-1	SA-2, configuration undetermined			
4	Alma-Ata SAM Site B31-2, [REDACTED]	43-23-00N 76-36-50E	UR 0329-2	SA-2, link			
5	Alma-Ata SAM Support Facility	43-22-20N 76-54-30E	UR 0329-2	Type II (square)			Located 0.5 nautical mile north-northwest of the support facility at 43-22-43N 76-54-25E is a secured motor pool area containing probable SAM-related equipment. It was first seen on [REDACTED] and was not present on [REDACTED]
6	Alma-Ata SAM Site A08-2, [REDACTED]	43-23-50N 77-01-19E	UR 0329-2	SA-2, link			
7	Alma-Ata SAM Site C03-2, [REDACTED]	43-40-45N 77-08-50E	UR 0329-2	SA-2, link			
8	Ili SAM Site A36-2, [REDACTED]	43-55-30N 77-11-00E	UR 0329-2	SA-2, link			

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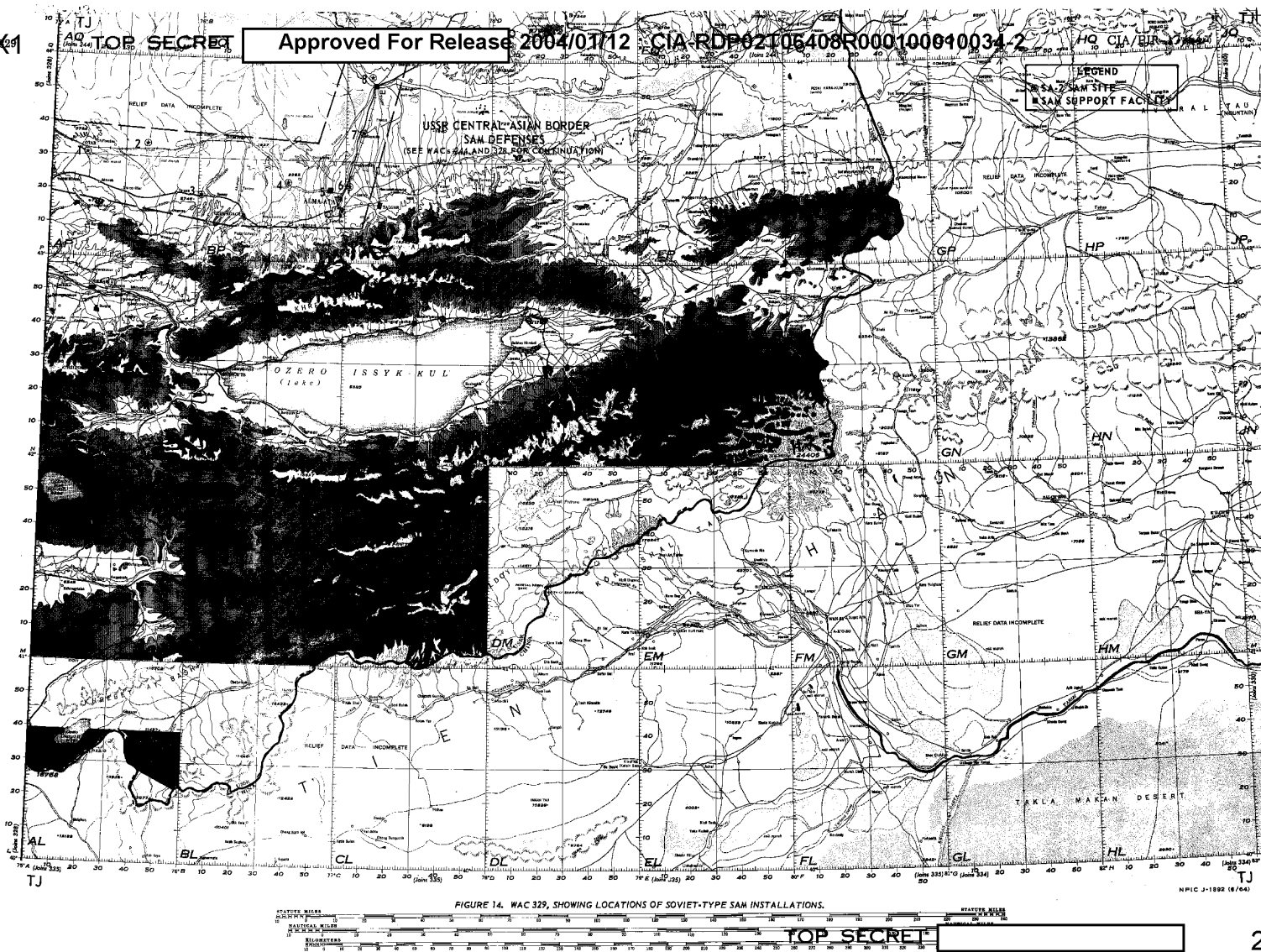
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T'IENTS RANGE (329)
CHINA (USSR)

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2. CIA. PIR-3/64, *Soviet-Type SAM Installations, WACs 102, 103, 127, 131, 152, and 153, (TOP SECRET [REDACTED])*
3. CIA. PIR-7/64, *Soviet-Type SAM Installations, WACs 154, 155, 156, 158, and 159, Mar 64* (TOP SECRET [REDACTED])
4. CIA. PIR-8/64, *Soviet-Type SAM Installations, WACs 160, 161, 162, 163, 164, 165, and 166, Mar 64* (TOP SECRET [REDACTED])
5. CIA. PIR-11/64, *Soviet-Type SAM Installations, WACs 167, 168, 169, and 170, Apr 64* (TOP SECRET [REDACTED])
6. CIA. PIR-14/64, *Soviet-Type SAM Installations, WACs 194, 196, 198 Through 205, and 231 Through 234, May 64* (TOP SECRET [REDACTED])
7. CIA. PIR-15/64, *Soviet-Type SAM Installations, WACs 235, 236, 238, 239, 244, 245, 246, and 248 Through 258, Jun 64* (TOP SECRET [REDACTED])

REQUIREMENT

CIA. C-RR3-80,738

PROJECT

C-1580/83 (partial answer)

TOP SECRET [REDACTED]

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